Specifications

Input Video Signal:

.. Analog: .5 to 1.2 volts p-p
.. ECL: .8 to 1 volt p-p

Input Sync Signal:

.. Sync on Green (RGsB)
.. Sync on Red, Green and Blue (RsGsBs)
.. Composite Sync (RGBS)
.. Separate H&V (RGBHV)

Output Signal:

.. Video: .5 to 1 volt p-p

Frequency Compatibility:

.. Horizontal: 15-125 kHz (automatic)
.. Vertical: 30-170 Hz (automatic)

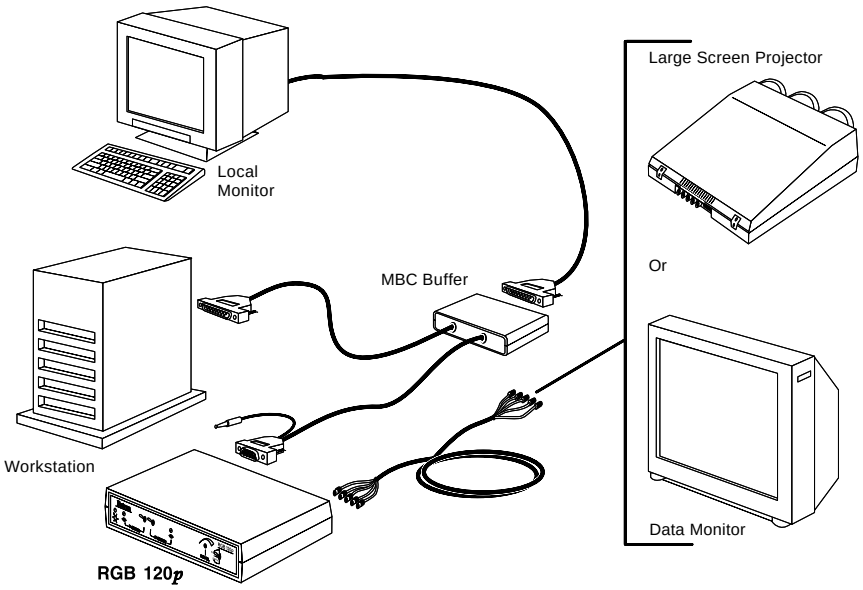
RGB Video Bandwidth:

.. 200 MHz (2.1 nS Rise Time)

Wall Mount Power Supply:

.. 115 VAC, 60 Hz to 15 VDC/900 mA

Below is an example of how an RGB 120*p* may be connected to a computer, through an MBC buffer.



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79-04
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Rev. C

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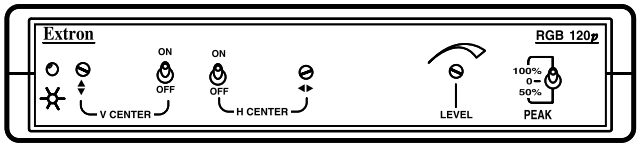
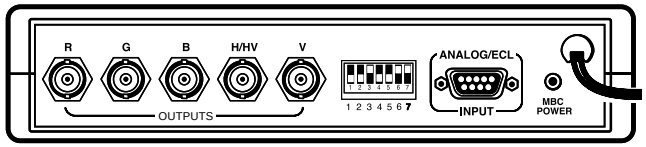
INTERFACING, SWITCHING AND DISTRIBUTION

User's Guide





RGB 120*p* Interface

(P/N 60-130-01)

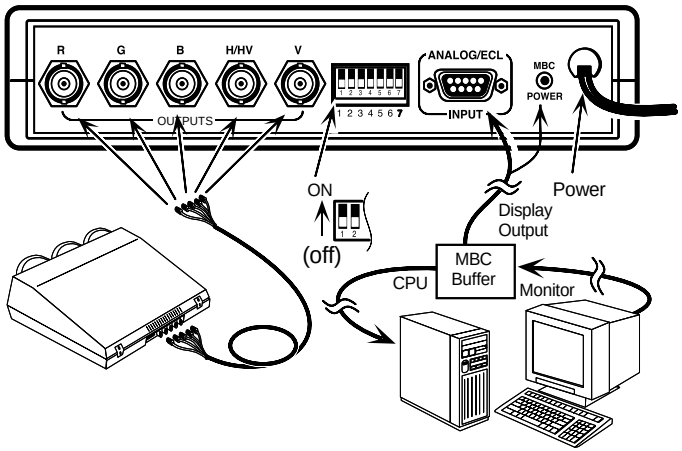
Description

The RGB 120*p* has a Video Bandwidth of 200 MHz and is compatible with any Analog or ECL computer system with a horizontal frequency range of 15-125 kHz. Using Extron MBC Cables and MBC Buffers, the RGB 120*p* is compatible with VGA, Super VGA, IBM PS/2, MAC, Sun, Silicon Graphics, XGA, XGA-2, DEC and many others. Call Extron or refer to Extron's Handbook of Computer Interfacing for a complete listing.

Installation (See illustration)

1. Turn off computer and its Monitor.

Rear Panel

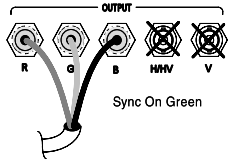


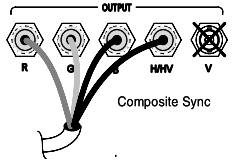
2. Disconnect local Monitor cable from the computer and connect it to the local monitor port on the MBC buffer.
3. Connect MBC interface output cable to "Analog/ECL" on the RGB 120*p*.
4. Connect the MBC Power cable to the RGB 120*p*.
5. Connect the MBC's CPU cable to the computer's video output.
6. Apply power to the RGB 120*p*, the CPU and monitor.

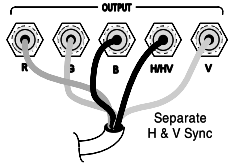
Automatic Sync Output— See Sync Output illustration. The RGB 120*p* will automatically output Sync on the coax cables being used, if they are terminated with less than 1K ohm.

- ***Sync on Green***—*Cables on R, G and B only.*
- ***Composite Sync***—*Cables on R, G, B, and H/HV (not V).*
- ***Separate H&V Sync***—*Cables on R, G, B, H/HV and V.*

Sync is automatically stripped from the Red, Green and Blue channels.







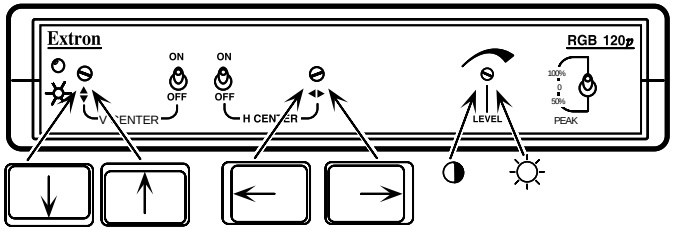
Operation

Power LED: Indicates if the RGB 120*p* is receiving power.

Horizontal Center Control: With the H Center switch **On/enabled**, the H Center Control [◀▶] shifts the displayed image left or right.

Vertical Center Control: With the V Center switch **On/enabled**, the V Center Control [▲▼] shifts the displayed image up or down.

Front Panel



Level Control: Increases (clockwise) the output video level from .3 to 1 volt p-p. This is similar to a contrast control on a monitor or projector.

Peaking Switch: Selects from three levels of peaking to compensate for mid and high frequency signal losses due to cable length. This is similar to the sharpness control on a monitor. The 3 switch positions are 0 (for no peaking), 50% peaking and 100% peaking. Select the peaking level for the sharpest image on the display.
Note: Over-peaking will distort the displayed image.

Universal Input: Using **Extron's** MBC input cables and buffers, allows viewing on both the computer monitor and large-screen projector/monitor at the same time.

MBC Power Source: Use **only** to power Extron's MBC buffers.

Termination Switch: 75 ohm video termination for applications with no local monitor (Sw7, below).

Switch#	Position	Function
1	ON	Does not allow Sync on Green
	OFF	Normal-Automatic Sync Output Detection
2	ON	Removes serration pulses
	OFF	Normal-serration pulses passed through
3	ON	Vertical Sync Width (500 µs)
	OFF	Normal-Vertical Sync Width (150 µs)
4	ON	Negative Sync at all times
	OFF	Normal-Sync output polarity tracking
5	ON	No Sync Processing (disables center controls)
	OFF	Normal-Sync Processing
6	ON	Separate H and V Sync at all times
	OFF	Normal - Automatic Sync output selection
7	ON	75 ohm Input termination (no local monitor)
	OFF	High Z Input termination (with local monitor)